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NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 05/27/2008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

NGUYEN, LINH V

ART UNIT PAPER NUMBER

2819 DATE MAILED: 05/27/2008

 APPELICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBMATION NO.

 10782.846
 06/14/2006
 Shigen-boat Takayama
 2565-0295PUS1
 6773

 TILE OF INVENTION: TIME SIREES DATA DIMESIONAL COMPRESSION APPEARATUS

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 08/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further a indicated unless correcte maintenance fee notificat	form should be used I correspondence includir d below or directed oth ions.	or transmitting the ISSI ig the Patent, advance of nerwise in Block 1, by (UE FEE and PUBLICATI rders and notification of n a) specifying a new corres	ON FEE (if require naintenance fees will pondence address; a	 d). Blocks 1 through 5 : be mailed to the current nd/or (b) indicating a sep 	should be completed where t correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	Note Fee(pape have	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.		
PO BOX 747	7590 05/27 ART KOLASCH H, VA 22040-0747	& BIRCH	Lhe	Certify	icate of Mailing or Trans	
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,846	06/14/2006		Shigenobu Takayama		2565-0295PUS1 6773	
TITLE OF INVENTION:				·	T	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I		
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/27/2008
EXAM		ART UNIT	CLASS-SUBCLASS			
NGUYEN,		2819	382-239000			
I. Change of correspondence address or indication of "Fee Address" (37 CTR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOSH 212) attached. —Tee Address' indication for 'Fee Address' Indication form PTOSH 47; Rev 03-92 or more recent) attached. Use of a Custome Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O						
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIC Please check the appropri	SNEE		(B) RESIDENCE: (CITY	and STATE OR CO	UNTRY)	occument has been filed for our coup entity
4a. The following fee(s) a ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order - #	o small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038 is authorized to charge	s attached. the required fee(s), any d	
	SMALL ENTITY state	is. See 37 CFR 1.27.			ENTITY status. Sec 37 C	
interest as shown by the r	ecords of the United Sta	tes Patent and Trademark	u mom anyone otner than t k Office.	ие аррисант; а registe	acu auorney or agent; or t	he assignee or other party ir
Authorized Signature				Date		
Typed or printed name				Registration No.		
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est a depending upon the indiv the Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 min idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS.	public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,846	06/14/2006	Shigenobu Takayama	2565-0295PUS1	6773
2292	7590 05/27/2008		EXAM	IINER
BIRCH STEWA	ART KOLASCH & B	NGUYEN, LINH V		
PO BOX 747		ART UNIT	PAPER NUMBER	
FALLS CHURCI	H, VA 22040-0747	2819		
		DATE MAILED: 05/27/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 287 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 287 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/582,846	TAKAYAMA ET AL.
Examiner	Art Unit
INH V NGUVEN	2810

The MAILING DATE of this communication appears on I All claims being allowable, PROSECUTION ON ITHE MEETIS IS (OR REI herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1,313 and MP	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia
 This communication is responsive to 6/14/06. 	
 The allowed claim(s) is/are <u>1-4</u>. 	
3.	ceived. ceived in Application No have been received in this national stage application from the been received in this national stage application from the summunication to file a reply complying with the requirements this application. te the attached EXAMINER'S AMENDMENT or NOTICE OF n(s) why the oath or declaration is deficient. mitted. ent Drawing Review (PTO-948) attached ment / Comment or in the Office action of the comment of the comment of the receivings in the front (not the back) of reaccording to 37 CFR 1.121(d). OLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary (PTO-413), Paper No./Mail Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/14/06 	7. ☐ Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance
or protogreal Material	9. Other

Page 2

Application/Control Number: 10/582,846

Art Unit: 2819

DETAILED ACTION

This office action is in response to communication filed on 6/14/06. Claims 1 – 4
are pending on this application.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

With respect to claim 1, in addition to other elements in the claim, prior art considered individual or combination does not teach a time series data dimensional compression apparatus, comprising: a time series subsequence generating section that generates time series subsequences of a specified segment width by which each of the plurality of pieces of time series data is divided; t performs singular value decomposition on all of the divided time series subsequences; generates dimensional compression time series data by using a specified number of high-order elements of the singular value decomposition as a representative value of each of the divided time series subsequences of the specified segment width.

With respect to claim 4, in addition to other elements in the claim, prior art considered individual or combination does not teach a time series data dimensional compression apparatus, comprising: determines a segment width to take a mean for each of the plurality of pieces of time series data of the specified length; generates an intermediate time series by using the mean value calculated as a segment representative value; performs the singular value decomposition on each intermediate time series; and a dimensional compression time series data generating section that

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Art Unit: 2819

uses a specified number of high-order elements of the singular value decomposition as compressed data of the intermediate time series.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571)
 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Rexford Barnie can be reached at (571) 272-7492. The fax phone numbers for the organization where this application or proceeding is assigned are (571-273-8300) for regular communications and (571-273-8300) for After Final communications.

5/21/08

/Linh V Nguyen/

Primary Examiner, Art Unit 2819